

NO-A192 928

NUCLEAR MAGNETIC RESONANCE SPECTROMETER(U) RICHMOND
UNIV ANN ARBOR DEPT OF CHEMICAL ENGINEERING
F H DONAHUE 1987 AFOSR-TR-88-8573 AFOSR-86-8231

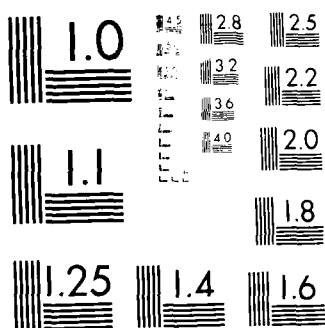
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MICROCOPY RESOLUTION TEST CHART
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REPORT DOCUMENTATION PAGE

AD-A192 928

1a. RESTRICTIVE MARKINGS		1b. RESTRICTIVE MARKINGS	
3. DISTRIBUTION / AVAILABILITY OF REPORT Approved for public release Distribution unlimited		5. MONITORING ORGANIZATION REPORT NUMBER(S) AFOSR-TR- 88-0573	
4. PERFORMING ORGANIZATION REPORT NUMBER(S)		7a. NAME OF MONITORING ORGANIZATION AFOSR/NC	
6a. NAME OF PERFORMING ORGANIZATION University of Michigan		6b. OFFICE SYMBOL (If applicable)	
6c. ADDRESS (City, State, and ZIP Code) Department of Chemical Engineering Ann Arbor, MI 48109-2136		7b. ADDRESS (City, State, and ZIP Code) Bldg 410 Bolling AFB DC 20332-6448	
8a. NAME OF FUNDING / SPONSORING ORGANIZATION AFOSR		8b. OFFICE SYMBOL (If applicable) NC	
9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER AFOSR-86-0231		10. SOURCE OF FUNDING NUMBERS	
11. TITLE (Include Security Classification) Nuclear Magnetic Resonance Spectrometer		12. PERSONAL AUTHOR(S) Professor Francks M. Donahue	
13a. TYPE OF REPORT FINAL		13b. TIME COVERED FROM TO	
14. DATE OF REPORT (Year, Month, Day) 1987		15. PAGE COUNT 1	
16. SUPPLEMENTARY NOTATION			
17. COSATI CODES			
18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)			
19. ABSTRACT (Continue on reverse if necessary and identify by block number)			

The major purpose of the spectrometer was to support research on low temperature molten salts. Specifically, to be used in the determination of the composition of the salt solutions (^1H and ^{13}C) and as a probe in the determination of the nature of complexation of metal complexes. In the case of the latter, the instrument was used to probe the nature of octahedral cationic complexes of aluminum and gallium in the melts (the first such observations). Some of the aluminum work has been in support of our work at the University of Michigan and some of the aluminum and all of the gallium work is collaboration with the F. J. Seiler Research Laboratory (AFSC) at the Air Force Academy. **KEYWORDS: MILITARY PROCUREMENT, PROCUREMENT DOCUMENT.**

20. DISTRIBUTION / AVAILABILITY OF ABSTRACT <input type="checkbox"/> UNCLASSIFIED/UNLIMITED <input type="checkbox"/> SAME AS RPT <input type="checkbox"/> DTIC USERS		21. ABSTRACT SECURITY CLASSIFICATION Unclassified	
22a. NAME OF RESPONSIBLE INDIVIDUAL Dr John S. Wilkes		22b. TELEPHONE (Include Area Code) (202) 767-4960	
		22c. OFFICE SYMBOL NC	

FINAL REPORT

AFOSR-TR- 88 - 0573

TITLE: Nuclear Magnetic Resonance Spectrometer

PRINCIPAL INVESTIGATOR: Professor Francis M. Donahue
Department of Chemical Engineering
University of Michigan
Ann Arbor, MI 48109-2136

INCLUSIVE DATES: 15 July 1986 - 15 July 1987

GRANT NUMBER: AFOSR-86-0231

COSTS AND FY SOURCE: \$ 141,240 (University cost-sharing: \$ 35,310) / FY87

SENIOR & JUNIOR RESEARCH PERSONNEL: N/A

PUBLICATIONS:
NONE (Two are in preparation)

ABSTRACT OF OBJECTIVES AND ACCOMPLISHMENTS:

The major purpose of the spectrometer was to support research on low temperature molten salts. Specifically, to be used in the determination of the composition of the salt solutions (^1H and ^{13}C) and as a probe in the determination of the nature of complexation of metal complexes. In the case of the latter, the instrument was used to probe the nature of octahedral cationic complexes of aluminum and gallium in the melts (the first such observations). Some of the aluminum work has been in support of our work at the University of Michigan and some of the aluminum and all of the gallium work is collaboration with the F. J. Seiler Research Laboratory (AFSC) at the Air Force Academy.

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